

Wednesday October 12

8:00 am **Morning refreshments**

8:30 am Meeting introduction / logistics / goal / ARM status *W. Ferrell, W. Wiscombe,
M. Zhang and S. Klein*

Case 5: Mixed-Phase Arctic Cloud Experiment (M-PACE)

8:50 am Synoptic overview of M-PACE clouds *J. Harrington*
9:30 am Modeling and observations of Arctic clouds *H. Morrison*
10:10 am Mesoscale simulations of the October 9-11 mixed phase
stratus case: Sensitivity to cloud-aerosol processing *A. Avramov*

10:30 am **Break**

10:50 am Use of an LES with bin microphysics to study ice initiation *A. Fridland*
under Arctic M-PACE and tropical TWP-ICE conditions
11:10 am GISS SCM simulations of the M-PACE case study: sensitivity *S. Menon*
to environmental conditions and cloud microphysical processes
11:30 am M-PACE forcing: sensitivity and impact on SCM simulations *S. Xie*
11:50 am Presentation of M-PACE SCM/CRM case *S. Klein*
12:00 pm M-PACE Discussion

12:10 pm **Lunch**

Convection Studies – Cloud Resolving Models

1:30 pm Numerical study of precipitation sensitivity to dimensionality *X. Zeng*
1:50 pm Study of aerosol-cloud-radiation interaction with a *S. Chin*
cloud-resolving model: Towards the development of
aerosol/cloud parameterizations for GCMs
2:10 pm The impact of dynamic and upper boundary conditions *W.-K. Tao*
on cloud resolving model simulations
2:30 pm A statistical comparison of tropical convective cloud systems simulated *Y. Luo*
by a CRM with Earth Observing System satellite observations
2:50 pm CSU Multi-scale Modeling Framework (MMF): Recent results *M. Khairoutdinov*
3:10 pm Preliminary results of the Goddard MMF *J. Chern*

3:30 pm **Break**

Convection Studies – CRMs (continued)

3:50 pm A new parameterization of momentum transport by *A. Cheng*
organized convective clouds and comparison with CRM
4:10 pm ISCCP cloud type analysis for Case 3 *S. Krueger*
4:30 pm An update on the work of the GCSS deep convective *J. Petch*
working group case 5

Convection Studies – GCM parameterizations

- 4:50 pm A climatology of fair-weather cumuli at the ARM SGP *L. Berg*
5:10 pm A dual mass-flux framework for boundary layer convection *R. Neggers*

5:30 pm Adjourn

6:00 pm Cocktail hosted by M. Zhang

Thursday October 13

8:00 am Morning refreshments

- 8:30 am The diurnal cycle of precipitation in models with parameterized convection *D. Randall*
8:50 am Single-column modeling of an idealized shallow to deep cumulus transition and comparison with CRM simulations *C. Bretherton*
9:10 am Understanding a climate model bias over the SGP: Inferences from SCM and GCM forecasts of the June-July 1997 IOP *S. Klein*

Frontal and Low Cloud Systems

- 9:30 am Evaluation of mesoscale model cloud simulations of the March 2000 SGP IOP *G. Tselioudis*
9:50 am Frontal cloud simulations from CAM3 and WRF during the ARM March 2000 IOP *J. Wu*
10:10 am Observational constraints on cloud thermodynamic phase in mid-latitude storms *A. Del Genio*

10:30 am Break

- 10:50 am Results from the *Improvement of Microphysical PaRameterization through Observational Verification Experiment (IMPROVE)* *B. Colle*
11:10 am Analysis of low cloud parameterization in CAM3 *W. Lin*

Grab-bag

- 11:30 am Evaluation of a stochastic shortwave subroutine in a SCM *D. Veron*
11:50 am New development of auto-conversion parameterization *Y. Liu*

12:10 pm Lunch

- 1:30 pm Parameterizing the dependence of surface albedo on solar zenith angle in the NCEP forecast models using ARM observations *F. Yang*

Observations

- 1:50 pm Cloud radiative forcing at NSA during the M-PACE period *G. G. Mace*
2:10 pm In-situ observations of cloud microphysics during M-PACE *G. McFarquhar*

2:30 pm	Retrieval of cloud phase over the ARM-NSA site using MODIS 6.7 - 12 micron data	<i>D. Spangenberg</i>
2:50 pm	Radiosonde observations at Pt. Reyes and low-level cloud properties derived from satellite	<i>T. Inoue</i>
3:10 pm	The New ARSCL	<i>P. Kollias and E. Clothiaux</i>
3:30 pm	Break	
3:50 pm	Update of NASA Langley cloud products for model evaluation and assimilation	<i>K. Ayers</i>
4:10 pm	Variability in cloud amount and shortwave radiation across the SGP network area from surface measurements: Watta ya want?	<i>C. Long</i>
4:30 pm	Current status and future plans for ARM instrumentation	<i>J. Liljegren</i>
4:50 pm	ARM CPM WG Business and meeting wrap-up - TWP-ICE plans - CLASIC plans - Data enhancements at ARM Archive	<i>M. Zhang and S. Klein</i> <i>L. Berg</i> <i>S. Xie</i>
5:15 pm	Adjourn	